

**National Transportation Safety Board
Washington, DC 20594**

Brief of Accident

Adopted 12/30/1992

DEN90FA166		07/27/1990		RUIDOSO, NM		Aircraft Reg No. N105YV		Time (Local): 10:30 MDT	
File No. 2179									
Make/Model: CESSNA / 208A						Fatal		Serious	
Engine Make/Model: P&W / PT6A-114						Crew		0	
Aircraft Damage: Substantial						Pass		0	
Number of Engines: 1								Minor/None	
Operating Certificate(s): Commuter Air Carrier								1	
Name of Carrier: MESA AIRLINES								4	
Type of Flight Operation: Scheduled; Domestic; Passenger Only									
Reg. Flight Conducted Under: Part 135: Air Taxi & Commuter									
Last Depart. Point: EL PASO , TX						Condition of Light: Day			
Destination: Same as Accident/Incident Location						Weather Info Src: Weather Observation Facility			
Airport Proximity: Off Airport/Airstrip						Basic Weather: Visual Conditions			
						Lowest Ceiling: None			
						Visibility: 20.00 SM			
						Wind Dir/Speed: Light and Variable			
						Temperature (°C): -18			
						Obstr to Vision: None			
						Precipitation: None			
Pilot-in-Command		Age: 24				Flight Time (Hours)			
Certificate(s)/Rating(s)						Total All Aircraft: 1697			
Airline Transport; Flight Instructor; Multi-engine Land; Single-engine Land; Helicopter						Last 90 Days: 268			
Instrument Ratings						Total Make/Model: 491			
Helicopter						Total Instrument Time: 141			

WHEN POWER WAS REDUCED TO BEGIN INITIAL DESCENT FOR APPROACH AND LANDING THE ENGINE LOST POWER AND THE PILOT PERFORMED A FORCED LANDING ON A ROAD. THE ROAD HAD A 4% UPGRADE AND CURVED TO THE RIGHT. DURING THE ROLLOUT THE OUTBOARD END OF THE RIGHT WING STRUCK A TREE DAMAGING THE WING CARRY THROUGH SPAR. METALLURGICAL TESTING REVEALED THE CAUSE OF THE POWER LOSS TO BE FAILURE OF THE GAS PRODUCER TURBINE.

Brief of Accident (Continued)

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07/27/1990

RUIDOSO, NM

Aircraft Reg No. N105YV

Time (Local): 10:30 MDT

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation: DESCENT - NORMAL

Findings

1. (C) TURBOSHAFT ENGINE,GAS GENERATOR TURBINE - FAILURE,TOTAL
2. (C) TURBOSHAFT ENGINE,FREE(POWER) TURBINE - FAILURE,TOTAL
3. COMPRESSOR ASSEMBLY,SPACER - FAILURE,TOTAL

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT

Phase of Operation: LANDING - ROLL

Findings

4. (F) TERRAIN CONDITION - ROADWAY/HIGHWAY
5. OBJECT - TREE(S)

Findings Legend: (C) = Cause, (F) = Factor

The National Transportation Safety Board determines the probable cause(s) of this accident as follows.

ENGINE FAILURE DUE TO FAILURE OF THE GAS PRODUCER AND POWER TURBINE ASSEMBLIES. A FACTOR IN THE ACCIDENT WAS THE LACK OF SUITABLE TERRAIN FOR THE FORCED LANDING.